



MEETING MINUTES

PROJECT: Water Treatment Plant	PAGE: 1 of 2
OWNER: City of Long Beach	PROJECT NUMBER: 08856
MEETING DATE: 3/15/11	CONTRACTOR: Rotschy, Inc.

PRESENT: Rick Gray, City of Long Beach
Jake Binoia, City of Long beach
Casey Danforth, Rotschy, Inc.
Jeff Elkins, Pall Corp.
Dan Naughton, PACE Engineers, Inc.
Dave Wiebe, PACE Engineers, Inc.

1. COMMENTS ON PREVIOUS MEETING:

- No discussion.

2. SCHEDULE:

- Casey Danforth did not present an up-dated three week schedule.
- The resolution of the VTP motors may impact the start-up schedule. All parties will strive for a resolution no later than 3/16/11. See the next schedule bullet item and the first bullet item under construction issues for further information.
- The following start-up considerations were discussed:
 - Start-up of the complete WTP system will be postponed until the VTPs are operational.
 - The flowmeters will require operation VTPs in order for proper calibration and start-up. The flowmeter are manufactured by Endress Hauser, as well as the pressure transducers and liquid level sensors. To avoid incurring additional costs, the start-up, of all of these components will be delayed until the VTPs are operational.
 - Ric Tower with TEC will be on-site on 3/21 to provide calibration, start-up, and training of the streaming current monitor and the chlorine and chlorine dioxide analyzers. Casey will confirm that Ric will have the appropriate buffers with him to calibrate the analyzers.
 - DOH will require a CIP be run at the end of the commissioning period.
 - The chlorine dioxide generator rebuild will take 1 week. Dan Naughton will coordinate with Siemens to confirm the rebuild and start-up schedule for the generator.
 - If Jeff needs to schedule a second trip to Long Beach, he will need a 2 week advance notice.

3. O&M MANUALS:

- No discussion.

4. RFI'S:

- No discussion.

5. PROPOSED CHANGE ORDERS:

- Jeff Elkins with Pall suggested that the pH sensors on the skids be removed and one sensor be installed on the post chemical injection raw water panel. This would allow the operator to "trim" pH levels more accurately when a skid was in a filter cleaning function. It is estimated that the change would cost approximately \$500 and would allow the City to have a back-up pH unit available. Dan Naughton will check with Cundiff Engineering to determine the electrical and control wiring requirements necessary for final pricing. In the event the final cost is not approved, Jeff has indicated that the system will work as currently configured.

6. CONSTRUCTION ISSUES:

- The oversized motor issue for the Dohman and clearwell pumps was discussed. Per Cundiff, the larger horsepower VTP motors will not work with the smaller horsepower rated VFDs. Either the VTP motors or the VFDs need to be changed out so that the horsepower ratings match. The lead time for the properly sized motors will be 3-4 weeks. The lead time for larger rated VFDs is 1 to 2 weeks, but may be expedited further with overnight delivery. NE Electric will prepare a cost proposal to change out the VFDs. Casey will



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present the options and cost impacts with Rueck. Rueck will be paying the bill to resolve this issue.

- The chlorine generator was commissioned on March 11th. The unit produces 1.3%-1.4% solution instead of the anticipated 0.8% solution. The commissioning technician recommended using Morton salt for the brine solution as it is in a purer form. TMG is looking into the availability and cost of a spare blower assembly and hypo strength and brine strength testing equipment as requested by Rick Gray. A hydrogen gas sensor has been ordered for the control unit and has been programmed for an alarm in the Pall SCADA controls. Staff training went well for the chlorine generator.
- One of the two Atlas Copco air compressors had malfunctioned and was repaired by the vendor.
- The filtrate to drain air-gap parts are on-site.
- The plumber will install a tee and valve on the potable water system to facilitate the future installation of a pressure tank.
- Rick Gray discussed the EFM vault calibration of the dechlor sensor and pump. He suggested and is looking into a solar driven mixer unit to provide a homogenous sample for the dechlor chemical disbursal.
- Jeff Elkins with Pall does not believe the correct Remote Terminal Unit (RTU) was specified at Dohman. The Dohman RTU only has I/O, which requires constant communication via the radio telemetry link or else the Dohman pump station will shut down. A PLC at the Dohman RTU would be more appropriate. In addition, due to the fiber optic connection between the WTP and Main impound RTU, an I/O would be adequate as opposed to the PLC specified. It was noted that Pall specified the RTU's for the two impoundments with full knowledge of the communications to be provided between the WTP and the impoundment RTUs. Jeff's proposed solution includes swapping the I/O and PLC between the impoundments so that the PLC will be located at the Dohman impound and the I/O will be located at the Main impound. Pall will research this issue further.
- The radio telemetry between the WTP and the Dohman impound is not working properly. The radio supplier is working on the problem. The initially supplied radio overheated and will be changed out. It was suggested that the City consider purchasing a spare radio for future use at an approximate cost of \$1,500.
- The punch list and as-built drawings were discussed. The punch list and as-built drawings will be generated by March 25th.

7. CONTRACTOR CONCERNS:

- No discussion.

8. ENGINEER / CITY CONCERNS:

- No discussion.

9. Q & A:

- No discussion.